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Recommendation Report of One day Orientation cum evaluation of Start-up Proposals received by the DBATU Forum of Innovation, Incubation & Enterprise (DFIIE)

DBATU Forum of Innovation, Incubation & Enterprise (DFIIE), Dr. Babasaheb Ambedkar Technological University (DBATU), Maharashtra State Innovation Society, and Swavlambi Bharat Abhiyan jointly organized a Start-up Pitching Competition at the Regional Centre, DBATU, Chh Sambhajinagar on 26/06/2023. The competition received a total of 24 entries, out of which 16 proposals were shortlisted for presentation. Each pitch showcased innovative ideas and solutions with the potential to make a significant impact in various sectors.

The start up pitch presented by Mr. Chirantan Tanaji Sonawane proposes a unique solution to combat iodine deficiency in women in rural areas of India. By developing a Ladies Bindi Transdermal Patch of Iodine, the startup aims to provide convenient and effective iodine supplementation. This innovative approach has the potential to reduce the prevalence of hypothyroidism, prevent intellectual disabilities in newborns, and improve the overall health and well-being of women. With its advantages in drug delivery, this start up idea holds great promise for addressing a significant public health issue in India.

The Jalkrishi Team presented an innovative idea of hydroponic farming during the startup pitch. Hydroponic farming offers a sustainable and efficient method of cultivating plants without soil, utilizing water-based nutrient solutions instead. This approach has the potential to revolutionize traditional agriculture by minimizing water usage, maximizing crop yields, and reducing the reliance on arable land. The concept presented by the Jalkrishi Team holds promise for addressing food security and environmental challenges by offering a scalable and resource-efficient farming solution.

The startup pitch by Ms. Lubdha Badgujar introduced the “Androgenometer- a rapid test device designed for the early diagnosis of Polycystic Ovary Syndrome (PCOS)”. This service-based startup idea aims to address the lack of awareness and discomfort surrounding PCOS among women in society. By enabling self-analysis and early medical assistance, the Androgenometer seeks to prevent severe complications associated with delayed diagnosis, such as infertility, obesity, and endometrial cancer. With its unique offering and the high scalability potential due to the absence of similar devices in the market, the Androgenometer

has the opportunity to make a significant impact on women's health and become a validated support to the healthcare industry.

Rohan Lad and Gundecha Pranav Valbhav from N. N. Sattha College of Pharmacy, Ahmednagar, introduced a specialized app designed to support pharmacy students in their studies. This student-centric app provides comprehensive study material related to pharmacy, including drug classification, detailed drug information (structure, molecular weight, mechanism of action, uses, adverse effects, pharmacokinetics, etc.), and information on medicinal chemistry, pharmacology, and herbal drugs. The app's user-friendly interface and extensive content make it a valuable tool for pharmacy, MBBS, and nursing students, offering ease of use and benefits to all studying in the pharmaceutical field.

Mr. Anant Bitai presented a Programmed Digital Pre-Sorted Medication Kit, a solution aimed at improving medication adherence for senior pharmacy patients. This innovative kit utilizes programmed medicine dispensing, pre-sorted medication reviewed by pharmacists, and features such as alarms and medication adherence alerts. With 24/7 pharmacist assistance and blind-assisted medication dispensing, this solution offers a seamless and stress-free experience, ensuring seniors can effectively manage their medications and avoid missed doses. By addressing medication adherence challenges, this startup idea has the potential to enhance the well-being of senior patients and provide value to pharmacies.

“Practicology” concept was presented by Mr. Avinash Kailas Kudhekar from Srinath College of Pharmacy, Aurangabad offered a virtual lab for pharmacology practical's. This innovative software provides diverse practical experiments, realistic laboratory equipment, interactive learning, visual demonstrations, step-by-step guidance, self-paced learning, and performance assessment. With over 1500 pharmacy institutes in India and a large number of pharmacy graduates each year, there is a significant market potential for this solution. Unlike existing providers in India and international alternatives, Practicology stands out with its tailor-made syllabus, lower system requirements, competitive pricing, and potential PCI certification, making it a valuable offering for universities, institutes, and regulatory bodies.

Artystan, a platform created for art enthusiasts, offers a one-stop solution for buying and selling art pieces for home decor and collectibles. With a focus on standalone art pieces and home decor, Artystan aims to connect artists and buyers, providing a platform for artistic expression and appreciation. The personal motivation behind Artystan stems from the founders' passion for art, the social impact it can create, the potential market size in the

thriving home decor industry, and the interest expressed by artists themselves. As highlighted by the quotes of Hu Shih and PM Narendra Modi, Artystan aims to utilize e-commerce models to promote and expand the reach of Indian crafts and art, contributing to the cultural exchange and market growth.

Ms. Samiksha Bhamare of N. N. Sattha College of Pharmacy, Ahmednagar presented the "At Home Kit - Biosensing Biodegradable Panty Liner," a revolutionary solution addressing the prevalence of vaginal infections and reproductive health issues in women. This wearable and comfortable self-testing unit aims to provide a non-invasive way to diagnose gynecological conditions, optimize women's well-being, and prevent future medical problems. With the future scope of boosting diagnosis, increasing self-esteem and compliance, and providing a diagnostic kit at your fingertips, this innovative solution also includes a connected mobile application for cloud storage of medical history. By empowering women with easy access to monitoring and diagnostics, this kit aims to improve reproductive health outcomes and enhance overall quality of life.

"Hyperlocal Social Media App" was developed by Ms. Prasadini Dindore (MIT, Aurangabad). This innovative platform aims to connect individuals within specific local communities, fostering meaningful interactions and collaborations. By leveraging location-based features, users can discover and engage with neighbours, local businesses, and community events. The app provides a centralized hub for sharing recommendations, organizing local activities, and building a strong sense of belonging. With the Hyperlocal Social Media App, Prasadini Dindore aims to bring communities closer together and create a vibrant, connected neighbourhood experience.

Mr. Mauli Mule from Government Polytechniques Ambad, Dist. Jalana, introduced the innovative idea of the "Scare Crow Gun." This remarkable invention serves as an effective solution for deterring crows from damaging crops and also proves invaluable in rural areas of India by keeping monkeys away from residential areas. The Scare Crow Gun boasts a compact design, ensuring convenience for users, while prioritizing safety. Moreover, this remarkable invention is affordable, making it accessible to a wide range of individuals.

Mr. Sudhanva Borde, from Govt. COE, Aurangabad, introduced the concept of EV Retrofitting Technology. This innovative approach involves the conversion of conventional vehicles into electric vehicles (EVs). By retrofitting existing vehicles with EV technology,

this concept allows for a cost-effective and environmentally friendly transition to electric mobility.

Shrikrishna Rajguru presents a startup idea catering to the construction industry with their specialized chemical services. Their innovative approach aims to provide high-quality and customized chemical solutions for various construction applications, such as concrete additives, waterproofing agents, adhesives, and sealants. By offering a wide range of chemicals tailored to meet specific construction needs, they aim to enhance the efficiency, durability, and overall quality of construction projects. Shrikrishna Rajguru's startup holds great potential in serving the booming construction industry with their reliable and advanced chemical services.

Ansari Abdul Rahman and Rohit Devidas Rawate present an innovative startup idea focused on the utilization of waste plastic in the manufacturing of eco-friendly paver blocks. Their long-term goal is to establish a market presence and expand their product line by incorporating plastic waste into various other sustainable products. By reducing plastic waste and transforming it into durable and environmentally friendly building materials, their startup aims to contribute to a greener future and promote circular economy principles. Their unique approach addresses both waste management challenges and the need for sustainable construction materials.

Efficient and Quick Delivery of Pharmacy Products and Medicines is a startup pitch presented by Rawate Rohit Devidas and Ansari Abdul Raheman. Their goal is to develop an app and website called Medco24 for seamless pharmacy product and medicine delivery. In the short term, they plan to run their services through WhatsApp Business in the Dhule area. Their long-term vision is to expand and establish a global-level medicine delivery business, catering to customers worldwide. With a focus on convenience and prompt service, their startup aims to revolutionize the pharmacy delivery industry.

Atharva Patkar presents a startup pitch for a Healthcare Chatbot. Utilizing Artificial Intelligence, this chatbot is designed to interact with users using natural language and store data for effective query decision-making. The aim is to develop a medical chatbot capable of diagnosing diseases and providing preliminary information before consulting a doctor. By reducing healthcare costs and enhancing access to medical knowledge, this innovative solution has the potential to improve healthcare accessibility and empower individuals to make informed decisions about their health.

iHealthHub, presented by Ms. Pranjali Rajaram Karle and Ms. Tejaswini Anil Lotake, is a comprehensive web page and mobile application that aims to provide holistic health information. It offers detailed insights into various diseases, including their causes, symptoms, diagnostic tests, treatment options, and a directory of specialist doctors. The platform is categorized according to different disease types, making it user-friendly. With objectives focused on educating users, suggesting prevention and medication, and connecting them with relevant specialists, iHealthHub strives to empower individuals with knowledge and resources to make informed decisions about their health.

Team Samskara presents an innovative solution, the Automated Multi Vegetable Transplanter, to address the growing need for agricultural automation. With labor shortages and the demand for increased productivity, this automated system offers precision farming and cost reduction benefits. The market scope includes farmers with limited field availability, tractor owners, and agro service providers, providing a wide range of potential customers. By introducing this technology, Team Samskara aims to revolutionize the farming industry and enhance the efficiency of vegetable transplantation processes.

Dr. Narayan R. Chandak presents a solution, the Highway Nail Picker, to address the issue of tire punctures caused by nails and bolts on the road. This unique tool, equipped with electromagnets and foldable arms, can efficiently collect metal parts from roads, reducing the risk of accidents and casualties. The Highway Nail Picker is a concept not yet available in India, offering a practical and easy-to-use solution that can be attached to maintenance vehicles. By introducing this innovation, Dr. Chandak aims to improve road safety and prevent tire punctures caused by stray metal objects

Mr. Ravindra Gahane presented "Design and Development of a Farma Economical Drone for Paddy Crop" concept as a start up proposal. The aim is to address the challenges faced by farmers in managing their crops by providing a low-cost agriculture drone equipped with machine learning technology for pesticide delivery. The drone will capture and analyze data, identify areas of crop infestation, and deliver the appropriate amount of pesticide, reducing labor costs and improving crop protection. The implementation process includes design and development, testing, deployment, and maintenance. The estimated budget covering research and development, hardware, machine learning algorithms, testing, certification, and deployment.

"Automation in Vertical Farming" concept was presented by Kshitij Sujit Bhoite of Yashoda Technical Campus Satara. It aims to address the challenges of traditional farming methods and promote sustainable agriculture. By implementing vertical farming techniques, we can maximize crop yield in a smaller space, reduce water consumption, and eliminate the need for extensive land use. Through automation, we will streamline the farming process, reducing labor requirements and making farming more efficient. Our solution not only contributes to food security but also mitigates the environmental impact of deforestation and climate change. Join us in revolutionizing the future of farming.

"Renewable Energy Eco-system" concept was presented by Mr. Kshitij Bhoite. Our startup aims to tackle the limitations and environmental impact of non-renewable energy sources by creating a sustainable ecosystem. We propose maximizing the utilization of renewable energy sources such as solar, wind, hydro, and manual resources to meet the energy needs of homes and private institutions. By implementing these solutions, we can reduce dependency on fossil fuels, decrease pollution, and promote self-sustainability. Join us in creating a greener future powered by renewable energy.

Mr. Pawan Dalvi, a talented 10th standard student from Jafrabad, developed a range of low-cost farming equipment. His innovative solutions aim to support farmers by providing them with affordable tools that enhance productivity and efficiency. From seed planters to irrigation systems, Mr. Pawan's creations offer practical and cost-effective alternatives to traditional farming methods.

The jury shortlisted the following proposals for the start-up boot camp:

Sr.	Title of the Proposal	Name of the Proposer	Name of the institute
1	Automation in Vertical Farming	Kshitij Sujit Bhoite	Yashoda Technical Campus Satara.
2	Student oriented application for study	Mr. Rohan Lad	N. N. Sattha College of Pharmacy, Ahmednagar
3	At Home Kit- Bio sensing Biodegradable Panty Liners	Ms. Samiksha Bhamare	N. N. Sattha College of Pharmacy, Ahmednagar
4	Scare Crow Gun	Mr. Mauli Mule	Govt. Plytechnique Ambad
5	ECO BLOCKS	Mr. Shrikant Randhavane	SVKMs Institute of Technology Dhule
6	Flihighway Nail Picker	Dr. Narayan Chandak	SVKMs Institute of Technology Dhule

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7	Androgenometer	Lubdha Badgujar	SVKMs Institute of Pharmacy, Dhule
8	Automatic Multivegetable Transplanter	Mr. Ganesh Jandhe	CSMSs Chh Shahu COE, Aurangabad
9	Social Teams	Ms. Prasadini Didore	MIT Aurangabad
10	Multipurpose Agriculture Machine	Mr. Pawan Dalvi	BS High School, Mahora, Dist. Jalana
11	EV Retrofitting Technology	Mr. Sudhanva Borde	Govt. COE, Aurangabad
12	Hydroponic Pharming	Mr. Vishal Bargal	CSMSs Chh Shahu COE, Aurangabad
13	Doorstep Digital Pharmacy	Mr. Anant Bittal	N. N. Sattha College of Pharmacy, Ahmednagar
14	Medicated Bindies for Women	Mr. Chirntan Sonawane	SVKMs Institute of Pharmacy, Dhule
15	Online Platform for maintenance and repairing Services	Mr. Shamsunder Sodgir	MIT Aurangabad
16	SR Construction Chemicals	Mr. Shrikrishna Rajguru	VDF Group of Institutes COE, Latur

The aforementioned proposals have been deemed worthy of further consideration. In the near future, a boot camp will be organized for the principal investigators (PIs) of these proposals. This boot camp aims to provide an opportunity for the PIs to explore the possibilities of advancing these proposals and establishing successful start-ups.

Additionally, any proposals that could not be included in the aforementioned list will be notified of their limitations and provided with an opportunity to present revised versions of their proposals in the upcoming evaluation cycle.

Brijesh Iyer
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Dr. Brijesh Iyer
Member, Executive Committee
Incubation Centre under Section-8 Company